

Notice of Allowability

Application No.

10/074,591

Examiner

Un C Cho

Applicant(s)

LIM ET AL.

Art Unit

2687

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 25 January 2005.
2. ☒ The allowed claim(s) is/are 1,8-11 and 17-25.
3. ☒ The drawings filed on 13 February 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date ____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 8 – 11 and 17 – 25 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, Yamaguchi in view of Damgaard discloses a radio-frequency apparatus capable of transmitting radio-frequency signals, the radio-frequency apparatus comprising a voltage-controlled oscillator circuitry (voltage-controlled oscillator, Fig. 1, 32) configured to generate a first signal that has a first frequency (output of the voltage-controlled oscillator) and a divider circuitry (frequency division and distribution section, Fig. 1, 33) being responsive to the first signal, the divider circuitry configured to generate a second signal (output of the frequency division and distribution section) that has a second frequency, wherein the second frequency equals the first frequency divided by a number (Yamaguchi, Col. 3, lines 13 – 23); a second switch coupled to the divider circuitry (Switch, Fig. 2, 55, coupled to the frequency divider), the second switch configured to generate a switched second signal by selectively supplying the second signal to a second output (Yamaguchi, Col. 6, lines 4 – 16); a feedback circuitry coupled to the voltage-controlled oscillator circuit (signal, Fig. 1, 67, coming out of VCO, Fig. 1, 57 or 59 and feeding back), the feedback circuitry configured to adjust the first frequency (Damgaard, Col. 4, lines 43 – 60); the feedback circuitry (feedback circuitry composed of PLL) adjusts the first frequency in response to a feedback signal (signal, Fig. 1, 67) derived from the

switched (combiner or switch, Fig. 1, 63) first and second signals (signals coming out of the VCO, Fig. 1, 57 or 59) (Damgaard, Col. 4, lines 43 – 60).

However, Yamaguchi and Damgaard either alone or in combination fails to teach that the feedback circuitry comprises a third switch coupled to the first and second switches, the third switch configured to selectively supply as the feedback signal one of the switched first and second signals.

Regarding claim 11, the claim is interpreted and allowed for the same reason as set forth in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C Cho whose telephone number is (571) 272-7919. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


SONNY TRINH
PRIMARY EXAMINER

Un C Cho
Examiner
Art Unit 2687

6/2/05 VC